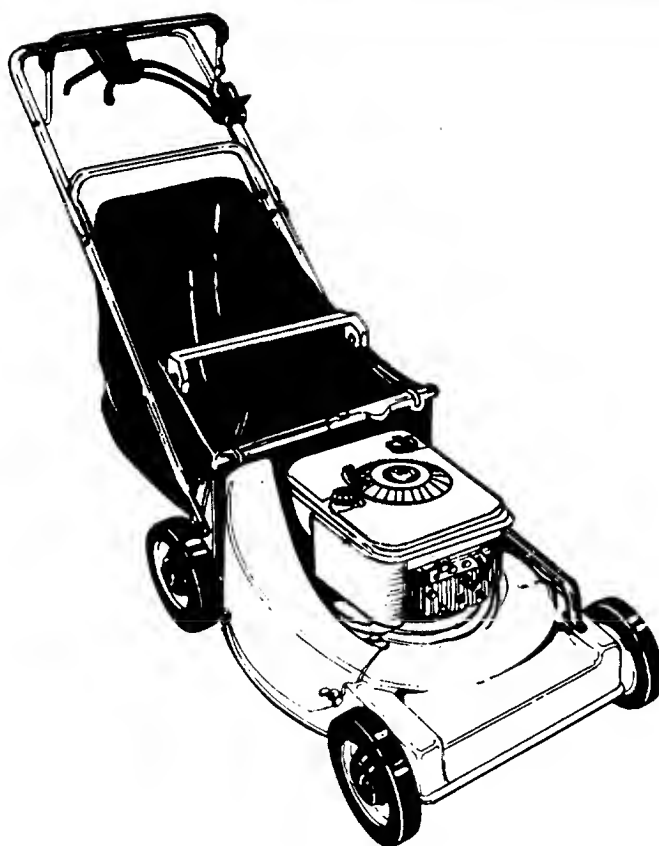


\$1.00

OWNER'S GUIDE

ASSEMBLY • OPERATION • MAINTENANCE • PARTS



21"
6 SPEED
CONVERTIBLE
ROTARY MOWER

Model Number
120-848B000

Important: Read Safety Rules and Instructions Carefully

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Dear Customer,

So often throughout the year we are all in a rush to meet our daily obligations.

However, we at MTD Products Inc are taking a quick moment out to say...

"Thank you for your business."

Sincerely,
MTD PRODUCTS INC



INSTRUCTIONS GIVEN WITH THIS SYMBOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.

NOTE: The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.



WARNING: To reduce the risk of injury, do not operate mower unless rear trailing shield and guard or entire grass catcher is in its proper place.

NOTE: Under normal usage, bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations. For replacement bags, use only factory authorized replacement bag.

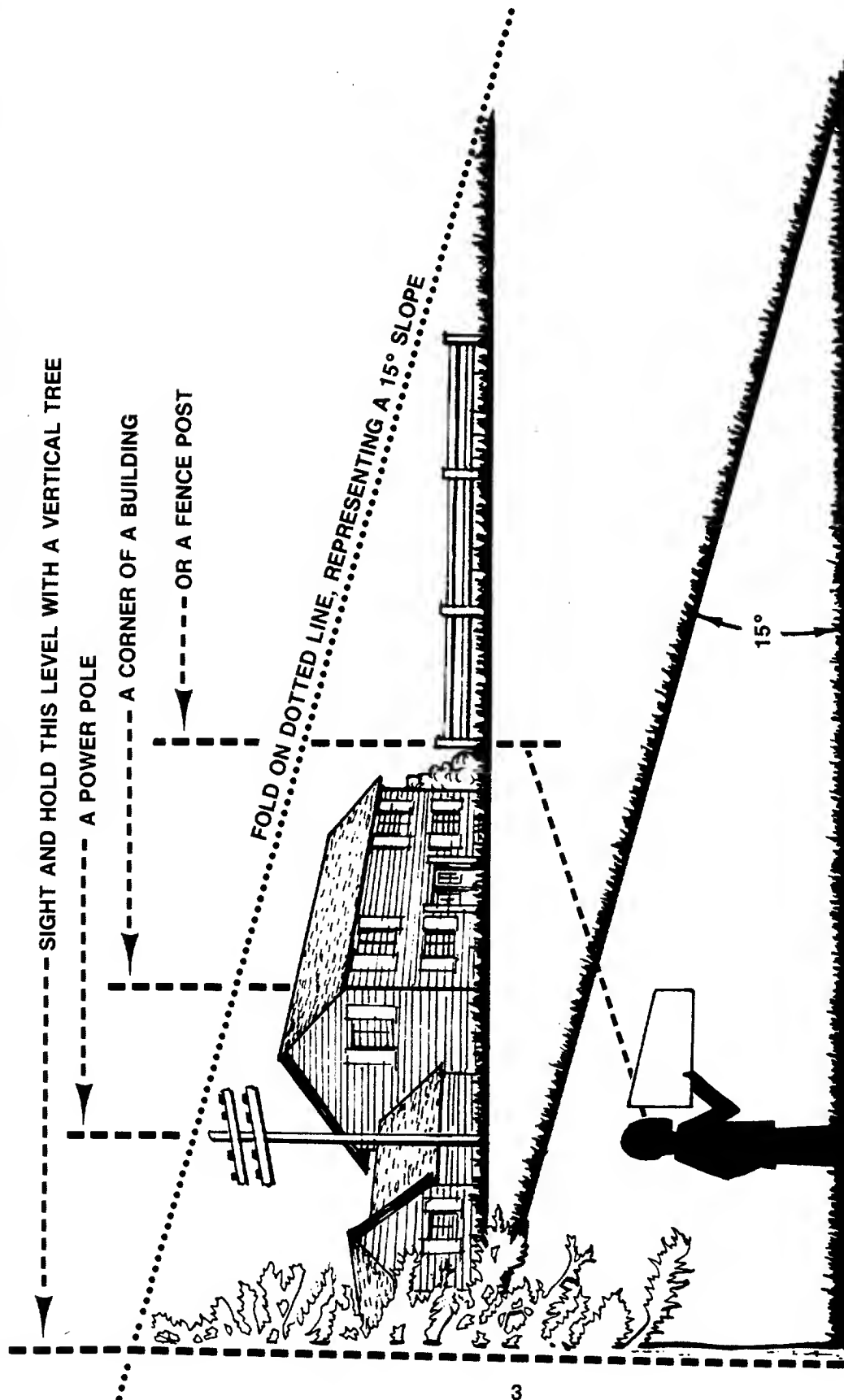
WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer.

SLOPE GAUGE

(Keep this sheet in a safe place for future reference.)

USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.



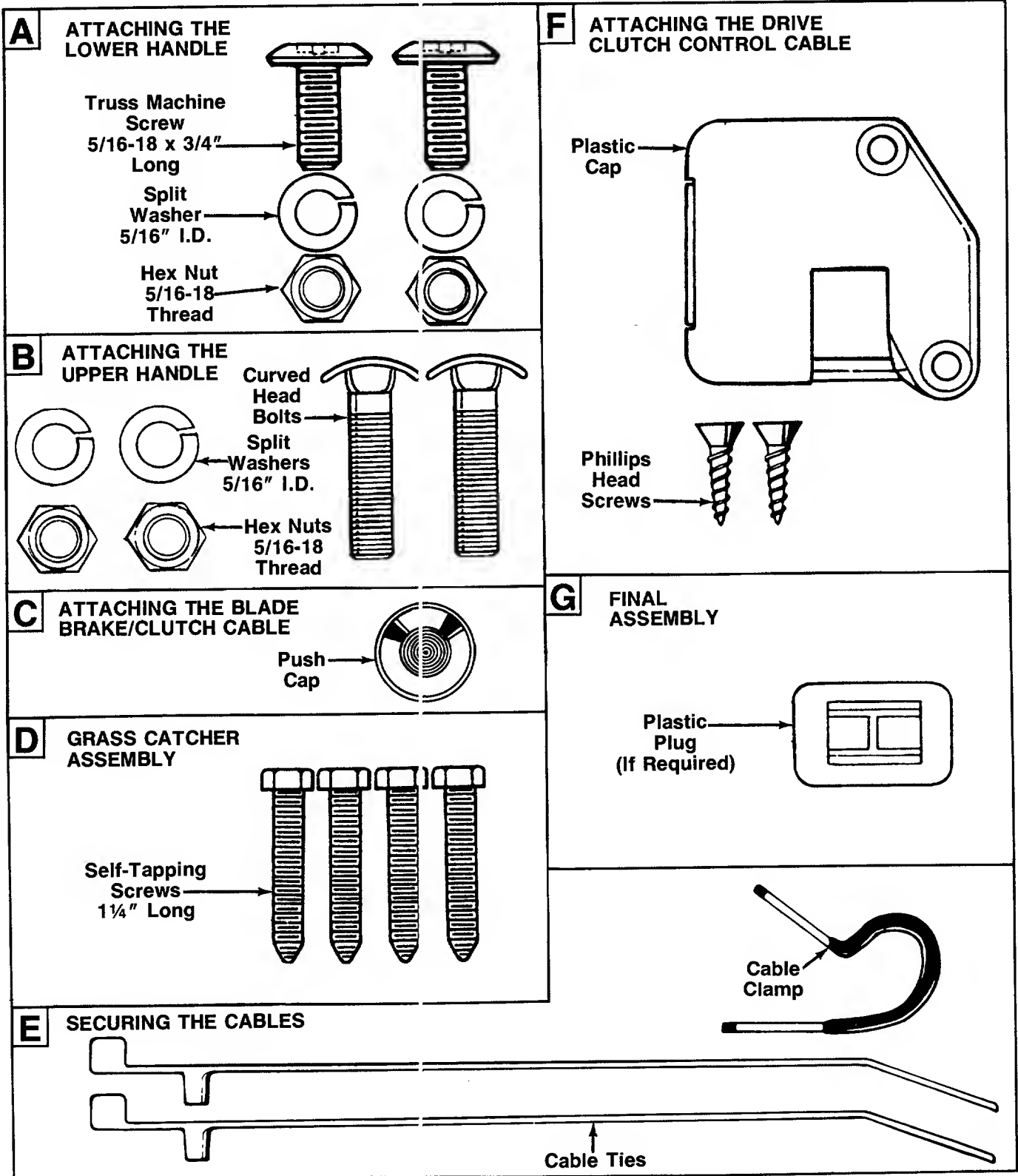
Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2½ feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

Operate RIDING mowers up and down slopes, never across the face of slopes.
Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

CONTENTS OF HARDWARE PACK

Remove this sheet from your owner's manual and lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which is on the reverse side of this sheet for future use.

(Hardware pack may contain extra items which are not used on your unit.)



IMPORTANT

RULES FOR SAFE OPERATION



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL—



HEED ITS WARNING.



DANGER

Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.



TRAINING

1. Read this owner's guide carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.



PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or until engine has been allowed to cool for two minutes after running. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.



OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Never operate mower without proper guards, plates or other safety protective devices in place.
11. Do not operate this mower with the chute door open, unless the complete grass catcher or chute deflector is properly mounted on the mower.



MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

ASSEMBLY INSTRUCTIONS

IMPORTANT: This unit is shipped **WITHOUT GASOLINE or OIL**. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.

NOTE: Reference to right or left hand side of the mower is observed from the operating position.

Tools Required for Assembly

- (1) Phillips Head Screwdriver
- (1) 1/2" Wrench*
- (1) 7/16" Wrench*
- (1) Flat Blade Screwdriver
- *Or one 6" Adjustable Wrench.

UNPACKING

1. Remove the lawn mower from the carton by opening the top flaps and lifting the unit out. Be careful of the staples. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Disconnect and ground the spark plug wire by hooking it into the "V" slot on the engine. Check beneath the deck for any cardboard packaging. Remove if present.
3. Stretch out all control cables and place on the floor. Be careful not to bend or kink the cables at any time during assembly.
4. Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

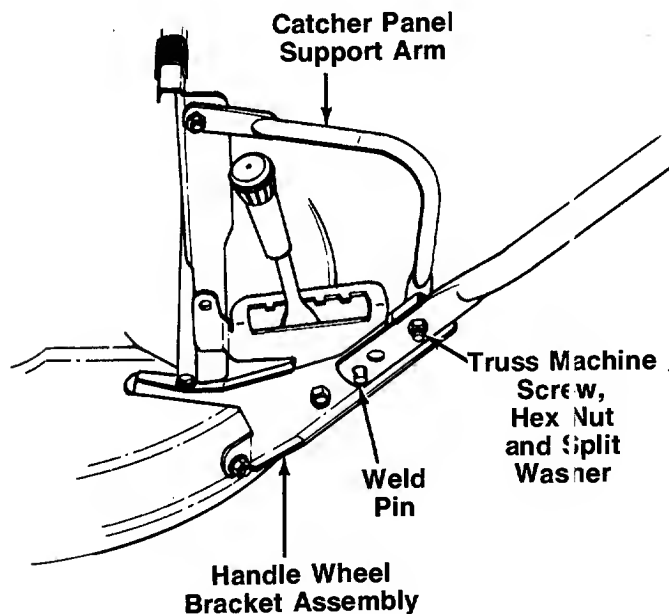


FIGURE 1.

ATTACHING THE LOWER HANDLE (Hardware A)

1. For shipping purposes your mower is set with the wheels in the lowest cutting height position. Raise the mower to the highest setting for assembly of lower handle.
2. On the left side of the mower, remove the truss machine screw, hex nut and split washer from the handle wheel bracket assembly as shown in figure 1.
3. Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle wheel bracket assemblies.
4. Pivot catcher panel support arm in position as shown in figure 1. Insert truss machine screw through catcher panel support arm, wheel bracket assembly and handle. Secure using the split washer and hex nut removed in step 2. Tighten securely.
5. Secure the right side of the handle to handle wheel bracket assembly using truss machine screw, 5/16" split washer and hex nut. Tighten securely.

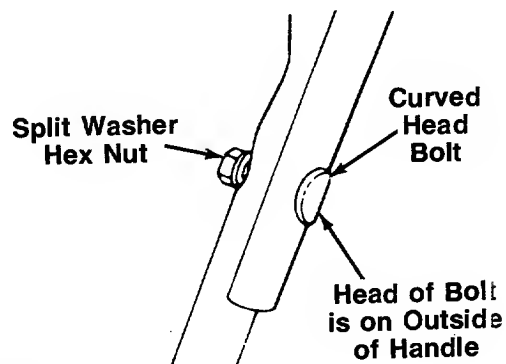


FIGURE 2.

ATTACHING THE UPPER HANDLE (Hardware B)

1. Place the upper handle in position over the lower handle. The label on the throttle control housing and the control lever must be facing up.
2. Secure the upper handle using the curved head bolts, split washers and hex nuts as shown in figure 2.

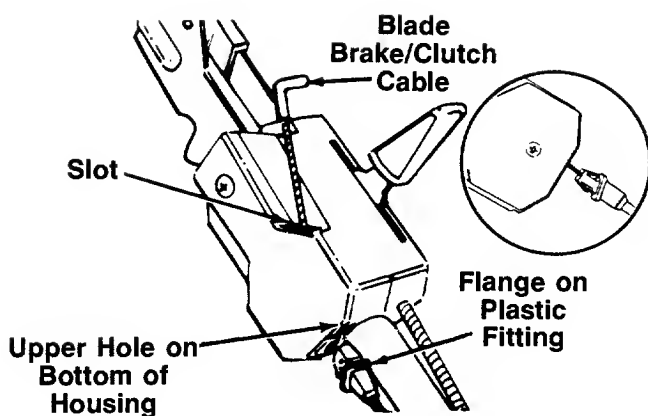


FIGURE 3.

ATTACHING THE BLADE BRAKE/CLUTCH CABLE (Hardware C)

The blade brake/clutch cable is the cable which has an "L" fitting on the loose end, and is attached to the blade brake/clutch underneath the deck.

1. Route the blade brake/clutch cable to the outside of the height adjustment lever and handle wheel bracket assembly, and under the lower handle.
2. Place end of cable into the upper hole on the bottom of the control housing, and through the slot as shown. The angle of the plastic flange must be positioned downward as shown in figure 3. Be careful not to bend or kink the cable at any time.
3. Push the plastic fitting until it locks into the control housing.



WARNING: The cable must be assembled as shown for proper blade brake/clutch operation.

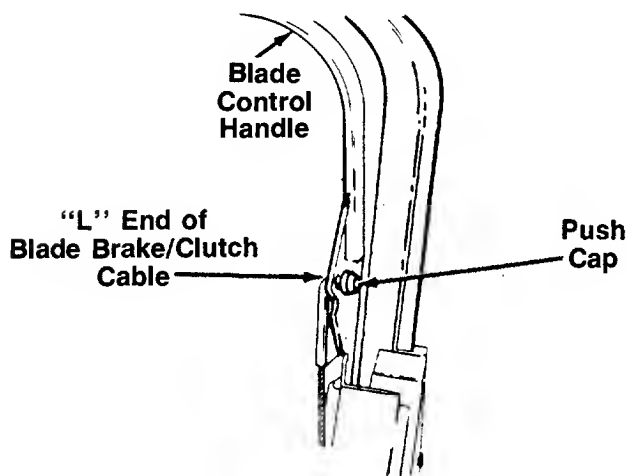


FIGURE 4.

4. Insert the "L" end of the blade brake/clutch cable into the hole in the blade brake/clutch control handle, from the inside to the outside as shown in figure 4. Hold the end of the cable, and press push cap on by hand.

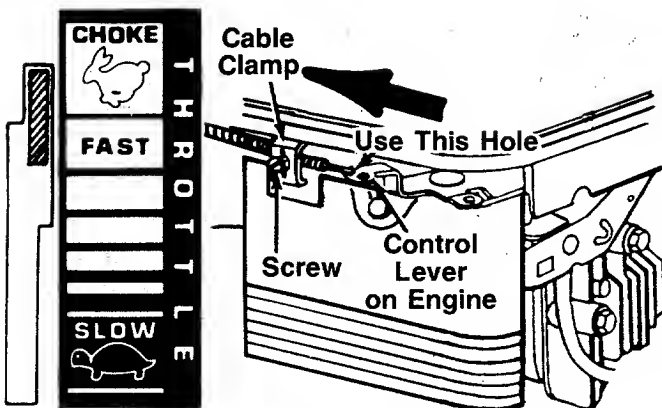


FIGURE 5.

ATTACHING THE THROTTLE CABLE

1. Push the throttle control lever on the handle all the way forward to CHOKE position. See figure 5.
2. The throttle control cable is attached to the upper handle. Route the throttle control cable under the lower handle. Route the cable to the **outside** of the handle wheel bracket assembly and height adjustment lever, then in back of the engine. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine shown in figure 5.
3. Using a screwdriver, remove the screw and cable clamp shown in figure 5.
4. Push the control lever on the engine as far toward the **rear** of the engine as it will go. Secure the cable in this position with the cable clamp and screw.

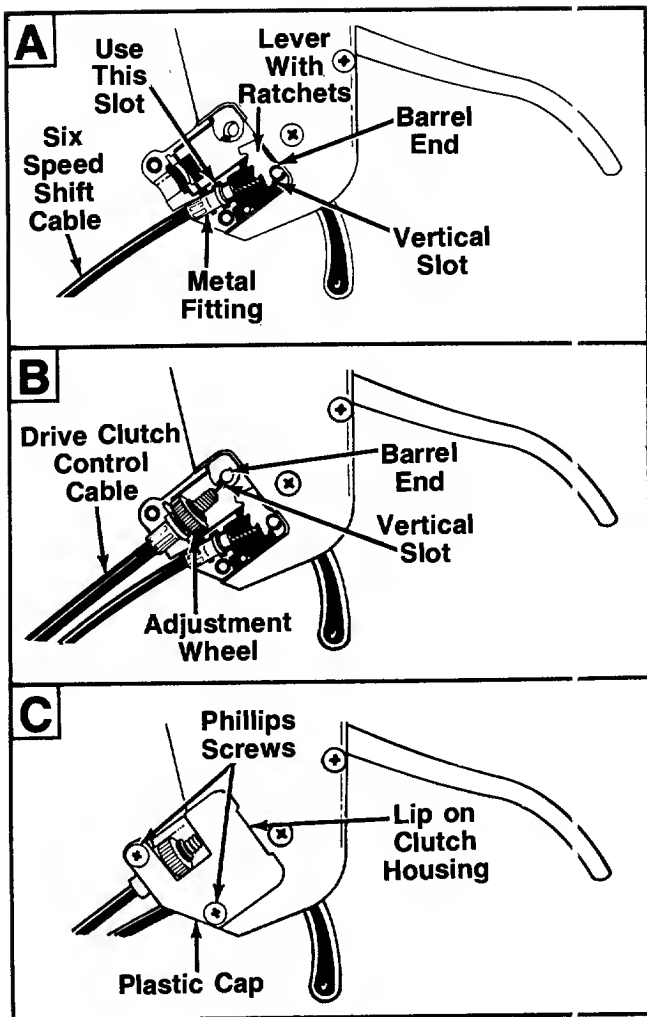


FIGURE 6.—Bottom View

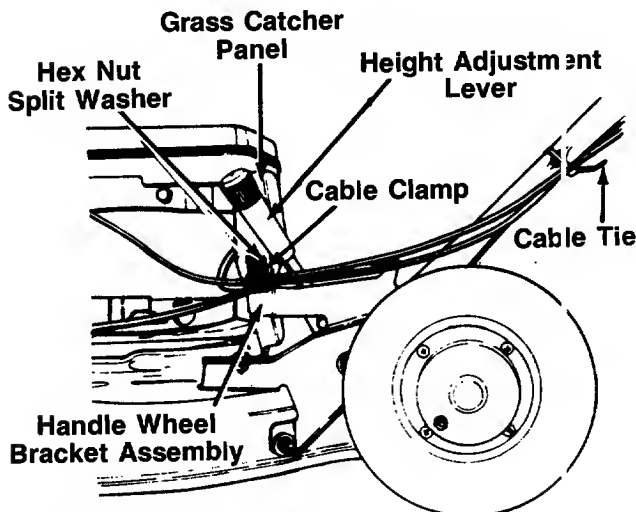


FIGURE 7.

ATTACHING THE SIX SPEED SHIFT CABLE AND DRIVE CLUTCH CONTROL CABLE (Hardware F)

Both the drive clutch cable and the six speed shift cable are attached to the deck. Attach both cables to the underside of the drive clutch control housing, located in the middle of the upper handle.

NOTE: The drive clutch cable is the cable with the adjustment wheel attached.

1. Place the shift lever (located on the bottom of the drive clutch housing) in 1st speed (slow) position.
2. Route the six speed shift cable to the outside of the height adjustment handle and handle mounting bracket. Attach as follows.
 - a. Slide the barrel end of the six speed shift cable into the hole provided in the six speed shift lever (lever with the ratchets). See figure 6A.
 - b. Slip the braided wire into the vertical slot as shown.
 - c. Slide the braided wire around in the horizontal slot.
 - d. Place the metal fitting on the end of the shift cable into the slot in the housing shown in figure 6A. Hold the fitting in this position as you assemble the drive clutch control cable.
3. Assemble the drive clutch control cable as follows.
 - a. Slide the barrel end of the cable into the hole provided in the end of the drive clutch control lever. Slip the braided wire into the vertical slot as shown in figure 6B.
 - b. Slide the braided wire around in the horizontal slot.
 - c. Make certain the adjustment wheel is threaded onto the cable as far as possible as shown in figure 6B. Place the adjustment wheel into the clutch control housing.
4. Secure the plastic cap to the clutch control housing using the two Phillips head screws. See figure 6C.



WARNING: Drive clutch adjustment must be checked before the unit is operated, as described in the operation section.

SECURING THE CABLES (Hardware E)

Attach the brake, throttle control and six speed shift cables to the left handle wheel bracket assembly as follows, using the cable clamp provided.

1. Open the clamp and slip the cables inside.
2. Remove the hex nut and split washer from the side of the left handle wheel bracket assembly as shown in figure 7. Attach the cable clamp to the left hand wheel bracket assembly as shown. Secure with hardware just removed.
3. Place the height adjustment lever in the lowest position.

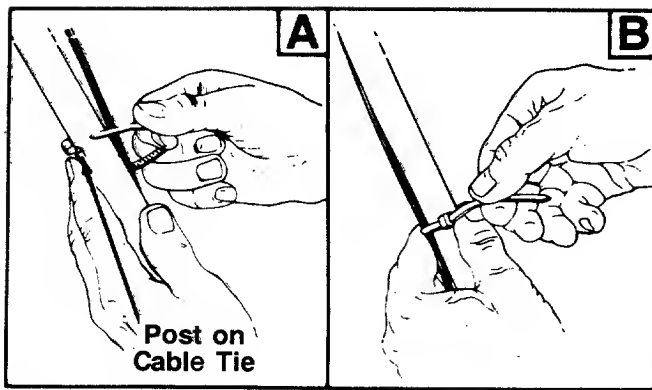


FIGURE 8.

Secure all the control cables to the left side of the handle with the cable ties as follows, taking the slack out of the cables so they do not contact the wheel.

1. Insert posts on cable ties into holes provided on the lower handle, one near the top and one near the bottom of lower handle. The holes may be on either the inside or outside of the handle. See figure 8A.
2. Secure the cables with the cable ties. See figure 8B.
3. Trim excess ends of cable ties.

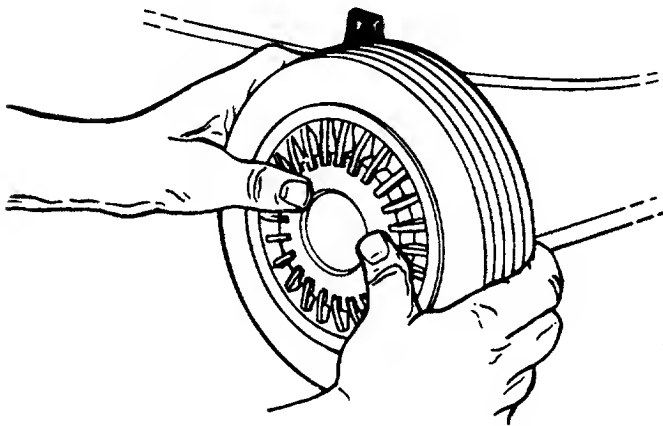


FIGURE 9.

FINAL ASSEMBLY OF MOWER (Hardware G)

1. If plastic plug is needed and is not already assembled, insert plastic plug into hole in the top rear of the deck by slipping one end of plug into hole, then pressing down on the other end of plug. Use a soft hammer if necessary.
2. Place hub caps in position against the inner hub of the wheel. Press firmly around the center portion of hub cap in a circular motion, similar to installing a lid on a round, plastic container. See figure 9. The hub caps are flexible and will snap over the 3 1/2" diameter wheel hubs.
3. Make certain all nuts and bolts are tightened securely.

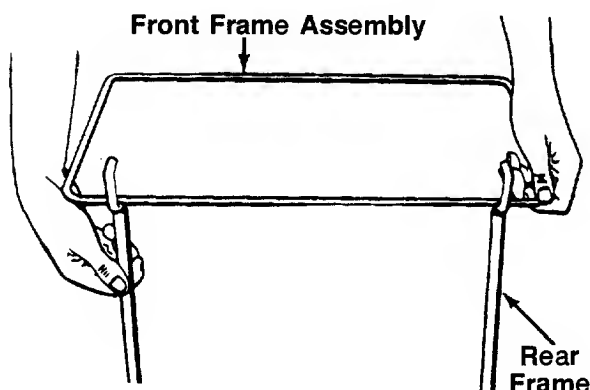


FIGURE 10.

GRASS CATCHER ASSEMBLY (Hardware D)

1. Join the rear frame and front frame assembly as shown in figure 10.

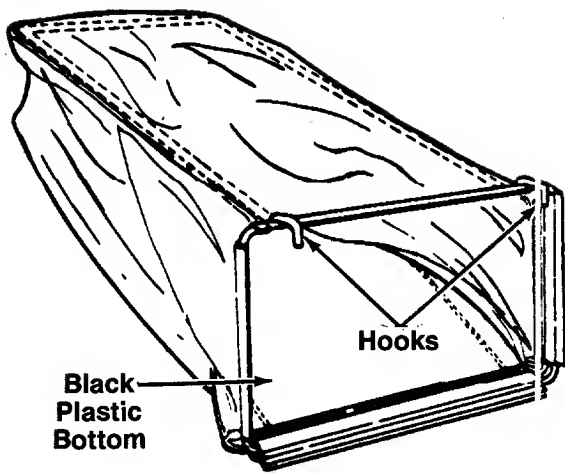


FIGURE 11.

NOTE: Make certain the grass bag is turned right side out before assembling (warning label will be on the outside).

2. Place the frame inside the grass catcher bag. The bottom of the grass bag is black plastic. The hooks on the front frame go toward the top of the bag.

← See figure 11.

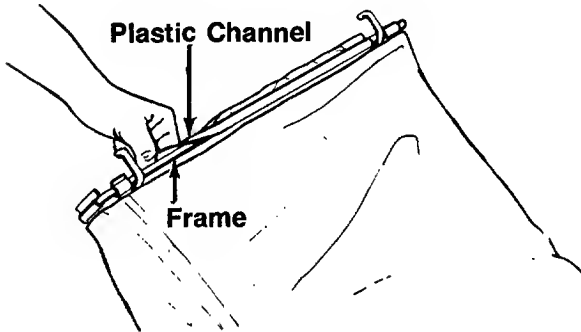


FIGURE 12.

3. Secure front of bag to frame by working the plastic channels on bag over frame. See figure 12.

←

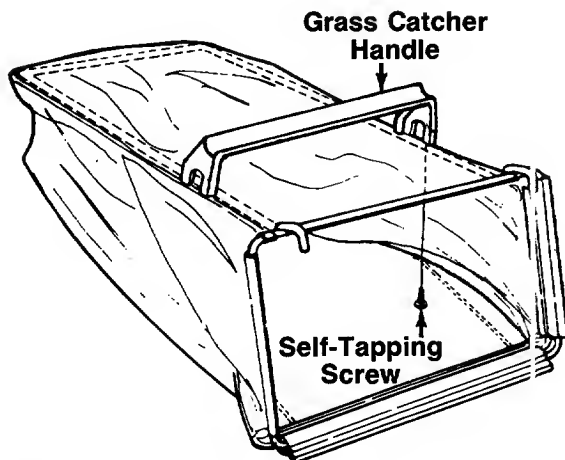


FIGURE 13.

4. Place the grass catcher handle in position on top of the grass bag and frame as shown in figure 13. Secure with four self-tapping screws.

←

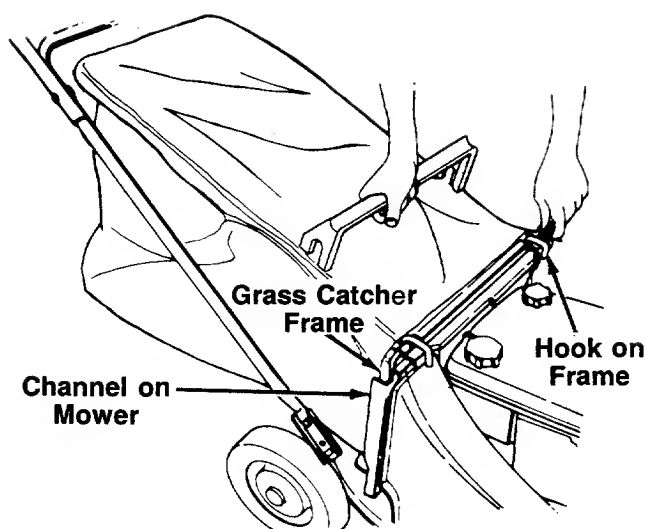


FIGURE 14.

TO ATTACH BAG TO MOWER

1. Hold the chute door on the catcher panel open as shown in figure 14.
2. Slide the frame of the grass catcher down into the channels on each side of the mower. The hooks on the frame go over the panel on the discharge chute. See figure 14.

To remove the grass catcher, lift the grass catcher straight up.

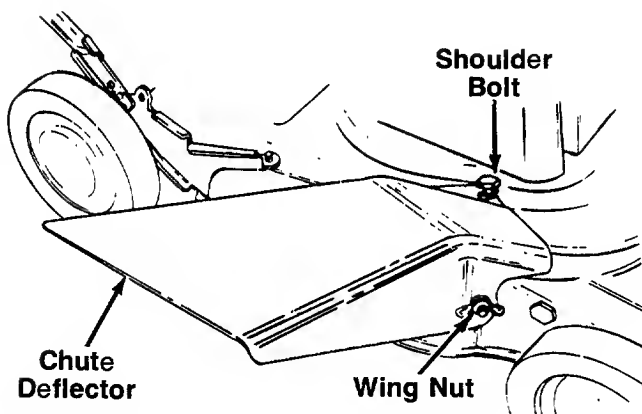


FIGURE 15.

TO CONVERT MOWER TO SIDE DISCHARGE

To convert your mower to a side discharge unit, proceed as follows.

1. Remove the rear discharge chute assembly by removing two wing nuts. Lift up on the two bottom corners of the discharge chute assembly, and slide it off the deck.
2. Attach the side chute deflector by first placing it over the rear bolt in the side of the deck. Then slide the notch in the top of the deflector around the shoulder bolt on top of the deck. Slide the notch in the side of the deflector around the front bolt in the side of the deck. See figure 15.

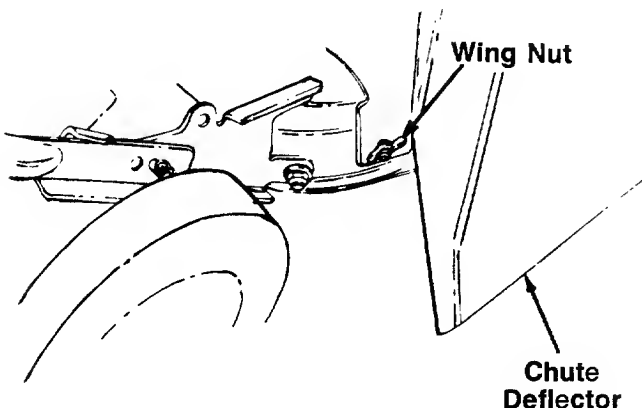


FIGURE 16.

3. Secure the front of the chute deflector to the bolt on the side of the deck with one wing nut. See figure 15. Secure the back of the chute deflector in the same manner. See figure 16.

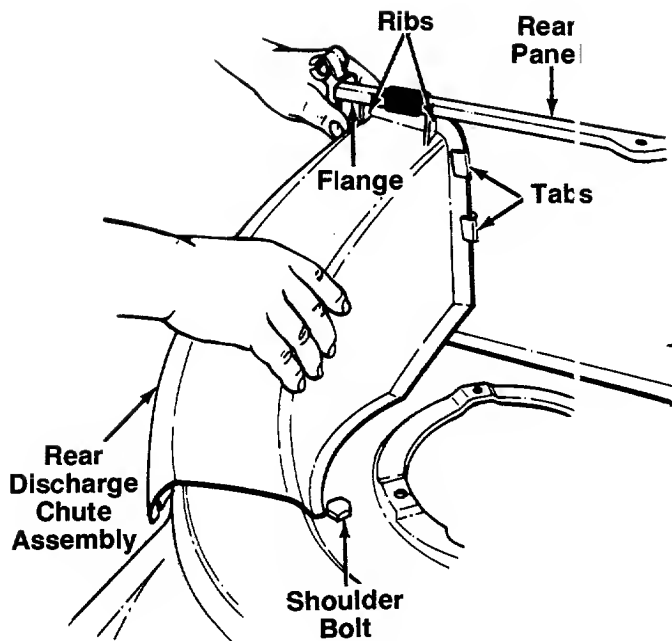


FIGURE 17.



WARNING: Never operate your unit without either the side chute deflector or entire rear discharge chute and grass catcher assembly in place.

To replace the rear discharge chute assembly, proceed as follows.

Slide the ribs on the discharge chute assembly under the flange on rear panel as you insert the side of the discharge chute under the two tabs. See figure 17.

The edge of the discharge chute assembly goes under the shoulder bolt on deck. Push down on the chute assembly, and slide the bottom corner slots over the bolts on side of deck.

Press down on the discharge chute assembly and secure with wing nuts. Make certain wing nuts are seated properly.

CONTROLS

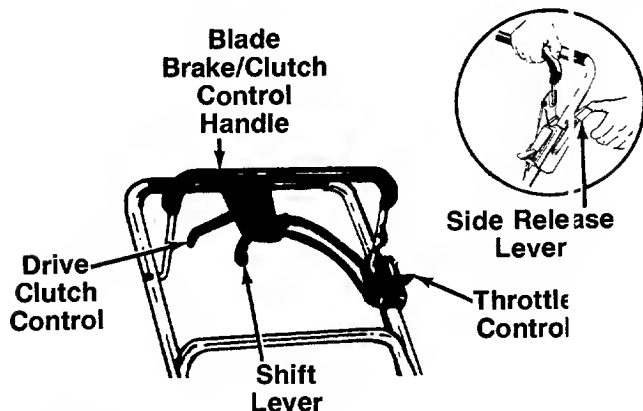


FIGURE 18.

BLADE BRAKE/CLUTCH CONTROL

WARNING

THIS CONTROL MECHANISM IS A SAFETY DEVICE NEVER ATTEMPT TO BYPASS ITS OPERATION

The blade brake/clutch control is located on the upper handle of the mower. The blade brake/clutch handle engages and disengages the blade.

To engage the blade, pull the side release lever away from the unit. See figure 18. Pull the blade brake/clutch control handle against the upper handle. Release side lever.

Release the blade brake/clutch control handle to stop the blade from turning.

THROTTLE CONTROL

The throttle control is located on the left side of the upper handle. It is used to regulate the engine speed.



WARNING: The throttle control cannot be used to stop the engine.

DRIVE CLUTCH CONTROL

Squeezing the drive clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figure 18.

SHIFT LEVER

The six speed shift lever is located on the drive clutch control housing on the upper handle. See figure 18. This lever is used to select the operating speed of the mower. Release the drive clutch control when changing speeds.

IMPORTANT: Move the shift lever **ONLY** when the engine is running. Shifting the speeds with the engine off can cause damage to the unit.

OPERATION



FIGURE 19.

Keep hands and feet away from the chute area on cutting deck. See figure 19.

The operation of any lawn mower can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields. We recommend wide vision safety mask for over spectacles or standard safety glasses.



NOTE: For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment section.

GAS AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your mower. Read instructions carefully.



WARNING: Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least two minutes after running.

BEFORE STARTING

1. Before each use, check for proper drive clutch operation by performing the following before starting the engine:

With the drive clutch control released, push mower forward. It should move freely. Pull mower backward. It should move freely.

If it does not and the rear wheels tend to lock up, the clutch may not be releasing completely. Do not start the engine until corrections have been made.

Check the control cable for severe bend, kinks and binding, or grass build-up in the pulley groove. Correct and adjust as required. Refer to adjustment section for additional information.

2. Attach spark plug wire to spark plug. Make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug. See figure 20.

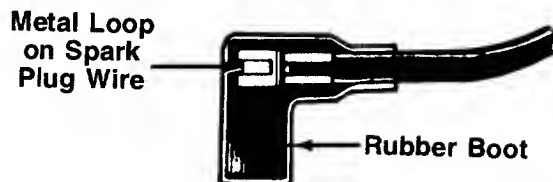


FIGURE 20.

3. The fuel shut-off valve is located beneath the fuel tank. The fuel shut-off valve should be in the open position. See figure 21. Open fuel shut-off valve if it is closed.

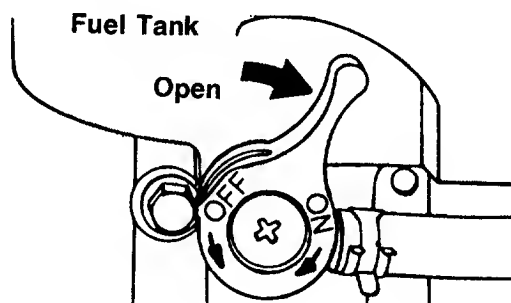


FIGURE 21.

TO START ENGINE

IMPORTANT: Move the shift lever only when the engine is running. Shifting the speeds with the engine off can cause damage to the unit. Disengage the drive clutch control when shifting speeds.



WARNING: When starting the unit for the first time, place mower in first speed (slow) position. Face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Make certain the drive clutch control is adjusted so the drive belt is as loose as possible. Refer to the Adjustment Section.

1. Move the throttle control lever to CHOKE position. (A warm engine may not require choking.)

2. With the blade brake/clutch control handle released, crank engine by pulling recoil starter with a quick firm pull. Do not pull out so far that rope stops with a jerk as this will cause rope failure. Do not allow rope and handle to snap back into place.
3. After engine starts, move the throttle control to desired engine speed.

NOTE: If any problems are encountered, refer to the *Trouble Shooting Guide* on page 22.

TO ENGAGE THE BLADE

1. Start engine as instructed previously. Allow the engine to warm up for **one minute** before attempting to engage the blade.
2. To engage the blade, pull the side release lever away from the unit. Pull the blade brake/clutch control handle down against the upper handle. Release the side lever. See figure 18.

NOTE: If a warm engine falters or stalls when attempting to engage the blade, refer to *Carburetor Adjustment Section* of this owner's manual.

3. Release the blade brake/clutch control handle to stop the blade from turning.

IMPORTANT: Always release the blade brake/clutch control handle before stopping the engine. If the engine begins to stall, release the blade brake/clutch control handle immediately.

Should the engine stall with the blade brake/clutch control in the operating position (control handle not released), difficulty may be encountered in pulling the starter rope to restart the engine. Proceed as follows.

1. Disconnect the spark plug wire from the spark plug.
2. Move the throttle lever to STOP position.
3. Hold the blade brake/clutch control in the engaged position.
4. While holding the blade brake/clutch control handle in this position, pull the starter rope.
5. As the starter rope is being pulled, release the blade brake/clutch control handle.

The starter rope should now operate correctly. Reconnect the spark plug wire for normal operation.



WARNING: Never operate your unit without either the side chute deflector or entire rear discharge chute and grass catcher assembly in place.

TO STOP ENGINE AND BLADE

1. Move throttle control lever to STOP position.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator and others.

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Speed of the mower should be adjusted to the condition of the lawn.

When using the side discharge mower, the best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.



WARNING: If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS



WARNING: Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

DRIVE CLUTCH CONTROL ADJUSTMENT

Use the adjustment wheel located on the underside of the clutch control housing to tighten the drive belt if mower does not self-propel with the drive clutch control engaged, or if drive belt is slipping (unit hesitates while engine maintains the same speed). See figure 22.

In addition, the adjustment wheel may also be used to determine the position in which the drive clutch control is engaged. If it is more comfortable to have the drive engaged with the lever further away from the handle, tighten the drive belt.

Make certain to retest the unit for neutral as instructed in the Operation Section. Move the adjustment wheel in the opposite direction to loosen the drive belt if necessary.

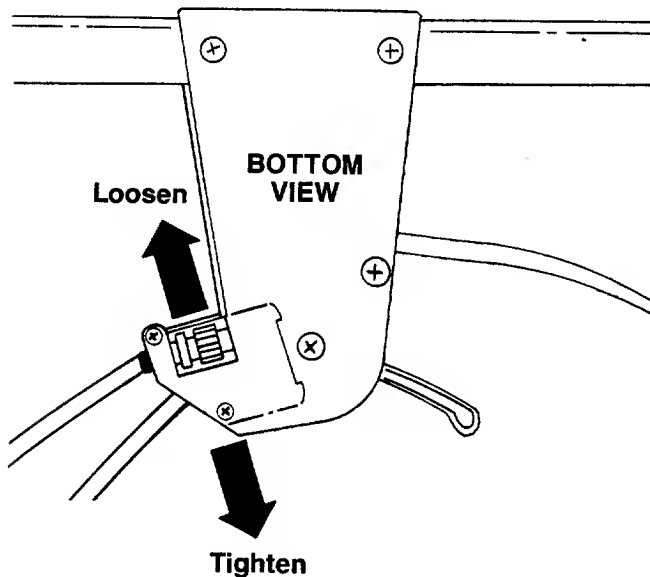


FIGURE 22.

CUTTING HEIGHT ADJUSTMENT

The height adjustment handle is located on the left side of the deck. The handle may be placed in one of nine cutting height positions. Push the handle to the left and then either forward to lower the cutting height or backward to raise the cutting height. See figure 23.

For rough or uneven lawns, move the height adjustment handle to a position which will give a higher cutting height.

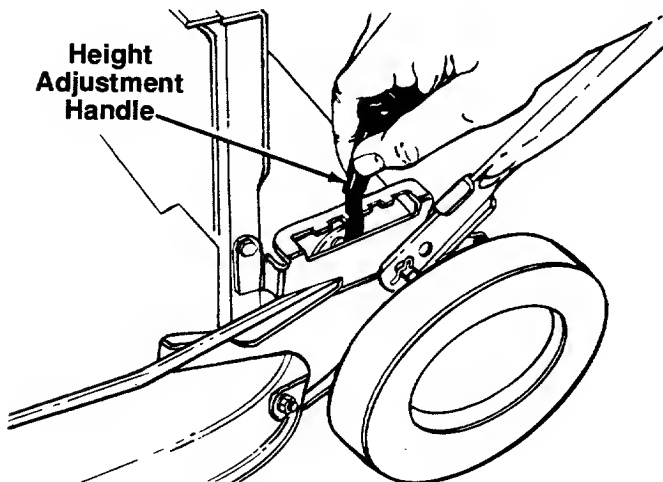


FIGURE 23.

THROTTLE

The throttle control wire assembly can be adjusted if necessary. Remove the screw and cable clamp shown in figure 5. Remove the cable from the clamp. Adjust as instructed in step 4 of "Attaching the Throttle Control Cable" in Assembly Instructions.

SIX SPEED SHIFT CABLE ADJUSTMENT

Periodic adjustment of the six speed shift cable may be required due to normal stretch and wear on the cable. Adjustment is needed if all six speeds cannot be obtained.

The adjustable cable bracket is located on the left side of the mower, beside the engine. To adjust, loosen the hex nut which secures the adjustable cable bracket. See figure 24. Pull backward on the bracket (toward the rear of the mower). Retighten the hex nut. Test the speeds on the mower (engine **must** be running).

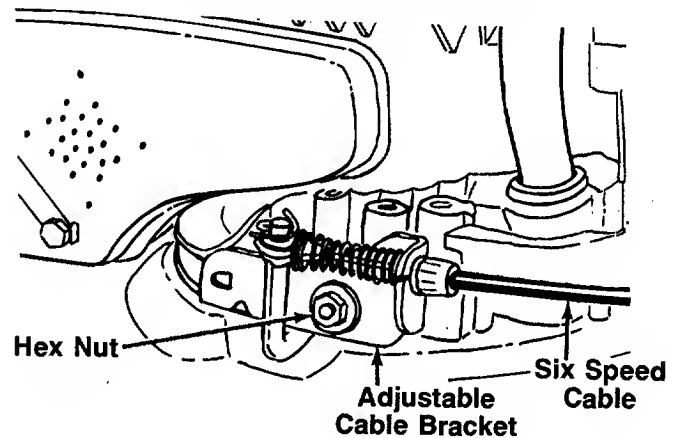


FIGURE 24.

CARBURETOR ADJUSTMENTS



WARNING: If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load. Refer to the separate engine manual packed with your mower for carburetor adjustment information.

NOTE: If a warm engine falters or stalls when attempting to engage the blade, the carburetor mixture should be adjusted 1/8 turn richer (counterclockwise). See figure 25.

The carburetor should be adjusted with the air cleaner in place and the blade brake/clutch control handle in the blade disengaged position.

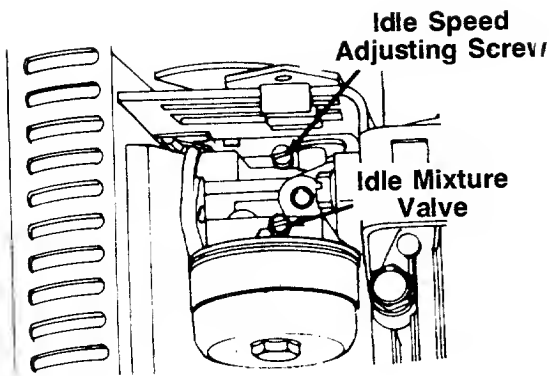


FIGURE 25.

NOTE: A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor.

LUBRICATION



WARNING: Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Brake/Clutch—Lubricate the pivot points on the blade brake/clutch handle and the brake cable at least once a season with light oil. See figure 26. The blade control must operate freely in both directions.

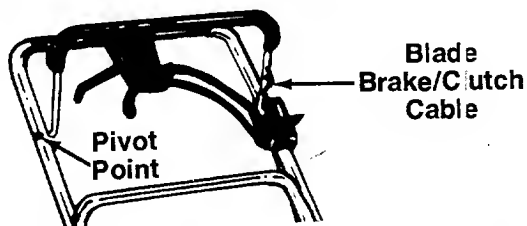


FIGURE 26.

Wheels—Lubricate the wheel bearings at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

Transmission—The transmission is pre-lubricated and sealed at the factory. It does not require checking. If disassembled for any reason, fill with 2 ounces of Alvania grease, part number 737-0168.

MAINTENANCE



WARNING: Be sure to disconnect and ground the spark plug wire before performing any repairs or maintenance.

NOTE: When tipping the unit, empty the fuel tank and keep engine spark plug side up.

TROUBLE SHOOTING

Refer to page 22 of this manual for trouble shooting information.

CUTTING BLADE

When removing the cutting blade for sharpening or replacement, protect hands by using heavy gloves or a rag to grasp the cutting blade. Remove the two hex nuts and lock washer which hold the blade to the blade brake/clutch. Remove the blade from the crankshaft.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

Make certain that the center bolt which secures the blade brake/clutch and the two hex nuts which secure the blade are tightened to between 350 inch pounds (minimum) and 600 inch pounds (maximum).

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of the mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, it will invite rust and corrosion, and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

NOTE: Do not use water to clean the underside of the deck as damage to the blade brake/clutch could result.

ENGINE

Refer to the separate engine manual for engine maintenance instructions.

Maintain **engine oil** as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service **air cleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plug** should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all grass, dirt and combustible debris from muffler area.

BLADE BRAKE/CLUTCH

This unit is equipped with a blade brake/clutch. If belt replacement is required or if for some reason the blade brake/clutch becomes inoperative, the repair work should be performed by an authorized service dealer.

The unit should be inspected by an authorized service dealer if any of the following conditions are noticed.

1. Frayed clutch control cable.
2. Leaking oil seal (oil collection on the floor during mower storage).
3. Extensive vibration of the unit.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Store mower in a dry, clean area.

NOTE: *When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts.*

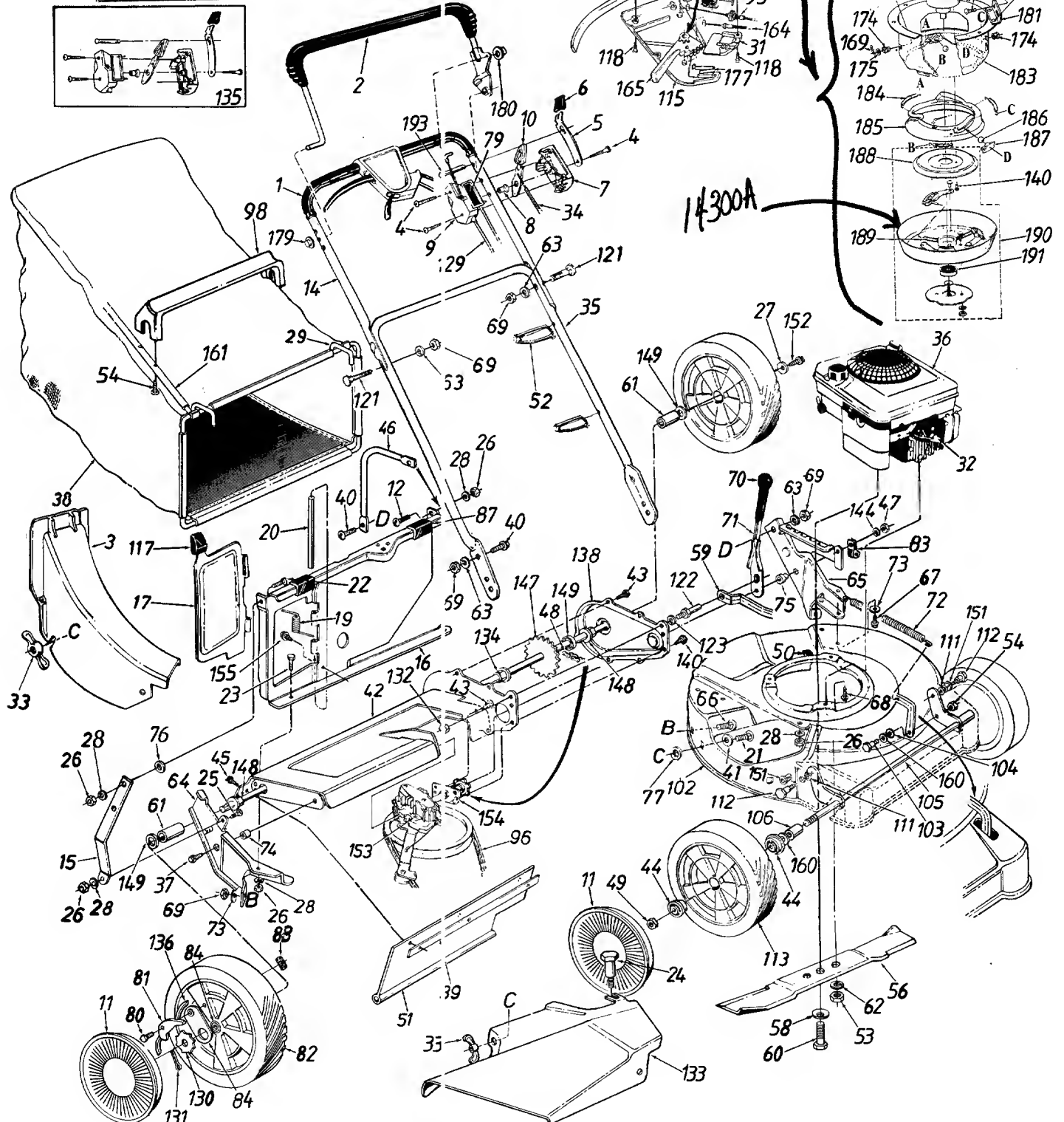
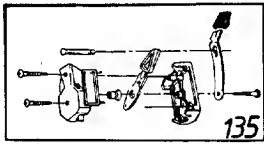
Model 848B

(192) CLUTCH ASSY COMPLETE

~~812-00016~~
812-00016

WELD PIN
FOR BELT GUARD

SHIFT
IF ROD HITS DECK ~~ADD~~ 736-0262
FL. WASHER (.090 THK.) BETWEEN HOUSING
(88%)
AND DECK FOR CLEARANCE
RE-ADJUST SPD. CABLE.



Model 848B

PARTS LIST FOR MODEL 848B ROTARY MOWER

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
1	720-0225		Foam Grip—2 Req'd. (Optional)	58	736-0412		Bell-Wash. .46" I.D.
2	731-0609		Control Handle Ass'y.—L.H.	59	16863		Height Adj. Connecting Arm
3	731-1023		Rear Discharge Chute Ass'y.	60	710-1002		Hex Bolt 7/16-20 x 2.0" Lg.
4	710-0796		Truss Mach. Scr. #12 x 1.50" Lg.	61	748-0190		(Grade 5)
5	732-0401		Lockout Spring	62	736-0169		Spacer .513" I.D. x .703" O.D. x .69" Lg.
6	720-0190		Grip	63	736-0119		L-Wash. 3/8" I.D.*
7	731-0817A		Control Panel Half	64	16136A		L-Wash. 5/16" I.D.*
8	731-0524		Control Disc Pin	65	16137B		R.H. Handle Wheel Brkt. Ass'y.
9	731-0816A		Clutch Panel Half	66	710-0260		L.H. Handle Wheel Brkt. Ass'y.
10	731-0972		Throttle Control Lever	67	710-0603		Carriage Bolt 5/16-18 x .62"*
11	731-0982A		Hub Cap	68	710-0654A		Hex Wash. Hd. B-Tap Scr. 5/16-18
12	710-0946		Truss Mach. Scr. 1/4-20 x .62" Lg.	69	712-0267		Hex Wash. Hd. TT-Tap Scr. 3/8-16
14	749-0439A		Upper Handle—Painted	70	720-0223		Hex Nut 5/16-18 Thd.*
15	16129A		Panel Support Brkt.	71	732-0606		Grip
16	16862		Rear Catcher Panel Ass'y.	72	732-0362		Height Adj. Lever
17	17095		Rear Discharge Door	73	736-0242		Extension Spring .75" O.D. x 8" Lg.
19	732-0483A		Torsion Spring	74	750-0736		Bell-Wash. 5/16" I.D.
20	747-0514		Pivot Pin	75	750-0624		Spacer
21	710-0134		Carriage Bolt 1/4-20 x .62"*	76	736-0211		Shld. Spacer .500" Dia.
22	710-0255		Truss Mach. Scr. 1/4-20 x 3/4" Lg.	77	726-0233		FI-Wash. .285" I.D. x 1.25"
23	710-0289		Hex Bolt 1/4-20 x .50" Lg.*	79	777-5811		Bolt Retainer 1/4 x .50" O.D.
24	738-0704		Shoulder Bolt .312 Dia. x .18 Lg.—Special	80	738-0137		Control Label
25	710-0258		Hex Bolt 1/4-20 x .62" Lg.*	81	748-0188B		Shld. Scr. .342" Dia. x .268
26	712-0287		Hex Nut 1/4-20 Thd.*	82	734-1510X B		Pawl
27	736-0270		Bell-Wash. 1/4" I.D.	83	734-1514A		Wheel Ass'y. Comp. (Silver)
28	736-0329		L-Wash. 1/4" I.D.*	84	726-0175		Wheel Ass'y. Comp. (Beige)
29	747-0705		Front Grass Catcher Frame	87	741-0486B		Clamp
31	731-0906	N	S.P. Control Cover	88	731-0880		Bearing 1/2" I.D.
32	735-0639		Spark Plug Insulator	88	712-0189		Panel Clip
33	712-0388		Wing Nut w/Washer	95	746-0710		Flat Weld Nut 1/4-20 Thd.
34	746-0674		Throttle Control Wire 61" B1K	96	754-0343		S.P. Cable
35	749-0725		Lower Handle—Painted	98	731-0801		"V"-Belt 3/4" Lg.
36	—		Engine	102	16859	638	Bag Handle
38	764-0257		Grass Bag (Black)	103	738-0234		21" Deck Ass'y.
	764-0256		Grass Bag (Gray)	104	736-0253		Shld. Bolt .5" Dia. x .295
39	14835		Retaining Strip	105	16856		Bell-Wash. .515" I.D. x 1.0" O.D.
40	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.	106	711-0313		Front Axle Ass'y.
41	736-0204		FI-Wash. .344" I.D. x .62"	111	736-0221		Sleeve .526" I.D. x .690" O.D. x .880" Lg.
42	17055B	638	Chain—Axle Ass'y.	112	738-0705		Intern. L-Wash. 3/8 I.D.*
43	710-0352		Hex B-Tap Scr. 1/4" x .38" Lg.	113	734-1513X B		Shld. Bolt .575" Dia. x .42
44	741-0180		Flange Ball Bearing 1/2" I.D.	114	734-1517A		Wheel Ass'y. Comp. (Silver)
45	710-0776A		Hex AB-Tap Scr. 1/4 x .62"	115	731-0904	N	Wheel Ass'y. Comp. (Beige)
46	749-0778		Catcher Panel Support Arm	116	731-0905	N	Self-Propelled Control Cover
47	712-0296		Hex Patch L-Nut 3/8-24 Thd.	117	731-0620		Self-Propelled Control Cover
48	713-0353		#48 Chain .500" Pitch x 30 Links	118	720-0190		Control Lever
49	712-0346		Hex L-Nut 1/2-20 Thd.	119	710-0841		Door Grip
50	731-0564		Plug	121	16855		FI-"C"-Sunk Hd. Tap Scr. #10 x .75" Lg.
51	731-0672A		Rear Flap 3.75" x 17.30" Lg.	121	710-0671		Pawl Plate
52	726-0240		Cable Tie	122	711-0805		Curved Carr. Bolt 5/16-18 x 1.38" Lg.
53	712-0328		Hex Nut 3/8-24 Thd. (Gr. 8)				Shld. Pin 3/8-24 x 1.43" Lg.
54	710-1025		Hex AB Scr. #12 x 1.25" Lg.				
56	742-0306A		21" Blade				

Model 848B

PARTS LIST FOR MODEL 848B ROTARY MOWER (CONTINUED)

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
123	736-0169		L-Wash. 3/8" I.D.*	165	731-0924	N	6-Spd. Shift Lever
129	746-0406		Control Cable 49" Lg.	166	17070	N	Adjustable Cable Brkt.
130	748-0318		Ratchet Wheel 1.62" O.D.	167	712-0291		Hex Cent. L-Nut 1/4-20 Thd.
131	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	168	736-0270		Bell-Wash. .265" I.D. x .75" O.D.
132	712-0711		Hex Jam Nut 3/8-24 Thd.	169	714-0507		Cot-Pin 3/32" Dia. x .75" Lg.
133	731-0884		Side Chute Deflector Ass'y.	170	747-0684	N	Shift Rod
134	741-0522		Hex Flange Bearing	171	741-0500A	N	Movable Pulley Half Ass'y.
135	753-0431		Kit—Control Housing Comp.	172	710-0167		Carr. Bolt 1/4-20 x .50" Lg.
136	10622B		Spring—Nylon	173	756	0578	Fixed Pulley Adapter
138	17053A		Chain Cover	174	731-1137	N	Flanged Bushing
140	710-0599		Hex Wash. S-Tap Scr. 1/4-20 x .50" Lg.	175	736-0278		FI-Wash. .328" I.D. x .68" O.D.
144	736-0300		FI-Wash. .385" I.D. x .87"	177	732-0627	N	Shift Lever Spring
147	738-0719A		Rear Shaft Ass'y. 21.94" Lg.	179	726-0135		Push Cap
148	741-0324		Hex Flange Bearing .503" I.D. Plastic	180	726-0245		Push Cap
149	736-0160		FI-Wash. .531" I.D. x .930"	181	17069	N	6-Speed Cable Mtg. Brkt.
151	741-0491		Flanged Nyliner Brg.	182	728-0145		Rivet .252" Dia. x .31"
152	710-0751		Hex Bolt 1/4-20 x .62" Lg. (Grade 5)	183	14309B	N	Clutch Housing
153	717-0417B		Transmission Comp. (See Breakdown)	184	732-0397		Ext. Spring 1.75" Lg.
154	16500A		Hex Bearing Cup	185	719-0283	N	Brake Cup Cone
155	710-0429		Hex B-Tap Scr. #10 x .38	186	741-0326		Steel Ball .5" Dia.
156	710-1055		Hex Scr. 3/8-24 x 1.0" -g.	187	731-0520		Ball Block
160	736-0108		FI-Wash. .51" I.D. x .75" O.D.	188	14304A		Clutch Cone
161	749-0764A		Rear Catcher Frame	189	732-0396		Comp. Spring 2.0" Lg. INC 173
162	712-0266		Hex Jam Nut 3/8-16 Thd.	190	741-0124		Clutch Blade Housing Ass'y.
163	713-0397	N	3 Tooth Rack Gear Insert	191	812-00016	N	Ball Brg. .669" I.D. x 1.574"
164	746-0706	N	Spd. Control Cable—50" Lg.	192			Blade Brake Clutch Ass'y. Comp.
				193	731-0607		Lock Pin

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

CODE: N notates a new part (not previously existing). A three digit number is the **color code**. Specify color code as shown below if color or finish is important when ordering parts. [i.e., (part no.)-638 for Red Finish].

Color Codes

456—Radiant Tangerine
460—Green Flake
483—Charcoal Gray
498—Yellow
499—Beige
621—Brilliant Fire Mist

629—Silver Flake
630—Metallic Blue
637—Black
638—Red
640—Green
646—CM Blue



NOTE

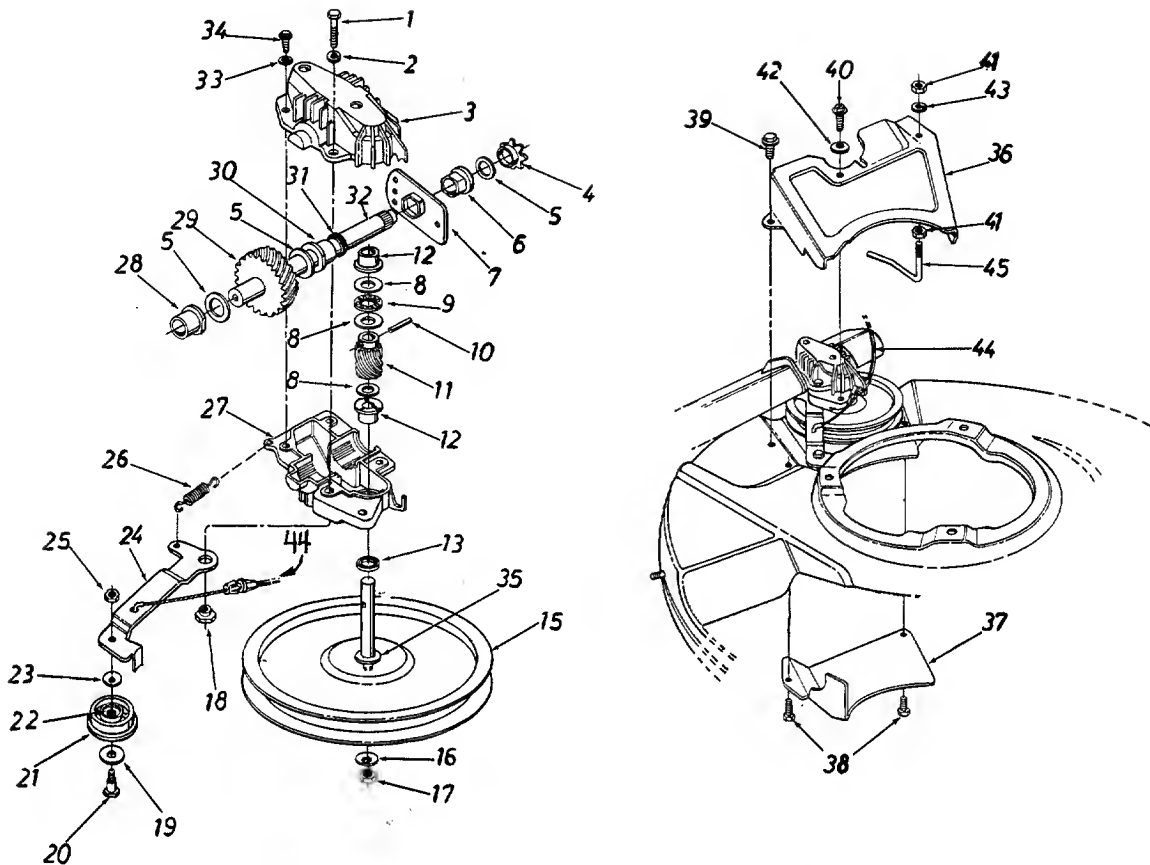
This instruction manual covers various models, and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

NOTE: The engine is not under warranty by the mower manufacturer... If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

Find It Fast
In The
Yellow Pages



Model 848B



PARTS LIST FOR MODEL 848B ROTARY MOWER

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
1	710-1062		Hex Bolt 1/4-20 x 1.25" Lg.* w/Patch	24	17052A		Idler Brk't. Ass'y.†
2	726-0329		L-Wash. 1/4" I.D.*	25	712-0138		Hex Patch L-Nut 1/4-28 Thd.†
3	717-0418A		Upper Hsg. Half	26	732-0357		Extension Spring 1.12" Lg.†
4	713-0400		#48 Sprocket 7 Tooth x 1/2 Pitch	27	717-0419A		Lower Hsg. Half
5	736-0336		Fl-Wash. 5/8" I.D. x .030	28	741-0415		Flange Bearing .56 Dia.
6	741-0413		Hex Flange Brg. .631" I.D.	29	717-0422		33 Tooth Helical Gear
7	16500A		Hex Bearing Cup	30	741-0414		Flange Bearing .629 Dia.
8	736-0314		Thrust Wash. .382" I.D. x .70" O.D.	31	721-0213		Oil Seal .625 Dia.
9	741-0479		Thrust Bearing .375" I.D. x .812" O.D.	32	738-0607		Gear Sprocket Shaft
11	717-1216	N	11 Tooth Helical Gear & SHAFT	33	736-0722		L-Wash. #10 I.D.
12	748-0208A		Flange Bearing	34	710-0436		Hex B-Tap Scr. #10 x .62"
13	721-0212		Oil Seal	35	736-0410		Hex Washer .26" x .88"†
15	756-0330A		Fl-Pulley 5.06" I.D.†	36	17058A	N	Transmission Belt Guard†
16	736-0270		Bell-Wash. .265" I.D. x .75"†	37	17065A		Belt Cover
17	712-0351		Hex Nut 1/4-28 L.H. Thd.†	38	710-0352		Hex B-Tap Scr. 1/4 x .38" Lg.†
18	738-0440		Shld. Spacer .375" Dia. x .170†	39	710-0599		Hex AB-Tap Scr. 1/4 x .50" Lg.†
19	736-0344		Fl-Wash. .390" I.D. x 1.0"†	40	710-0896		Hex B-Tap Scr. 1/4 x .62" Lg.
20	738-0826	N	Shld. Bolt .375" Dia. x .40"†	41	712-0287		Hex Nut 1/4-20 Thd.*†
21	756-0558	N	Fl-Idler Plastic 1.50" Dia.†	42	736-0270		Bell-Wash. .265" I.D. x .75"†
22	741-0556	N	Needle Brg. .375" x .31"†	43	736-0329		L-Wash. 1/4" I.D.*†
23	736-0270		Bell-Wash. .265" I.D. x .75"†	44	746-0710		S.P. Cable—48" Lg.†
				45	747-0549		S.P. Belt Guard†
				—	717-0417B	N	Transmission Comp.

†Not Part of Transmission Complete

Trouble Shooting Guide

Trouble	Possible Cause(s)	Corrective Action
Engine fails to start	<ol style="list-style-type: none"> 1. Spark plug wire disconnected. 2. Throttle control lever not in CHOKE position. 3. Fuel shut-off valve closed. 4. Fuel tank empty, or stale fuel. 5. Blocked fuel line. 6. Faulty spark plug. 7. Engine flooded. 	<ol style="list-style-type: none"> 1. Connect wire to spark plug. 2. Move throttle lever to CHOKE position. 3. Open fuel shut-off valve. 4. Fill tank with clean, fresh gasoline. 5. Clean fuel line. 6. Clean, adjust gap or replace. 7. Remove spark plug, dry the plug, and crank engine with plug removed and throttle in off position. Replace spark plug, connect wire and resume starting procedures.
Engine runs erratic	<ol style="list-style-type: none"> 1. Unit running in CHOKE position. 2. Spark plug wire loose. 3. Blocked fuel line or stale fuel. 4. Vent in gas cap plugged. 5. Water or dirt in fuel system. 6. Dirty air cleaner. 7. Carburetor out of adjustment. 	<ol style="list-style-type: none"> 1. Move throttle lever to FAST position. 2. Connect and tighten spark plug wire. 3. Clean fuel line; fill tank with clean, fresh gasoline. 4. Clear vent. 5. Drain fuel tank. Refill with fresh fuel. 6. Clean air cleaner.† 7. Adjust carburetor.†
Engine overheats	<ol style="list-style-type: none"> 1. Engine oil level low. 2. Air flow restricted. 3. Carburetor not adjusted properly. 	<ol style="list-style-type: none"> 1. Fill crankcase with proper oil. 2. Remove blower housing and clean.† 3. Adjust carburetor.†
Occasional skip (hesitates) at high speed	<ol style="list-style-type: none"> 1. Spark plug gap too close. 2. Carburetor idle mixture adjustment improperly set. 	<ol style="list-style-type: none"> 1. Adjust gap to .030". 2. Adjust carburetor.†
Idles poorly	<ol style="list-style-type: none"> 1. Spark plug fouled, faulty or gap too wide. 2. Carburetor improperly adjusted. 3. Dirty air cleaner. 	<ol style="list-style-type: none"> 1. Reset gap to .030" or replace spark plug. 2. Adjust carburetor.† 3. Clean air cleaner.†
Excessive vibration	<ol style="list-style-type: none"> 1. Cutting blade loose or unbalanced. 2. Bent cutting blade. 	<ol style="list-style-type: none"> 1. Tighten blade. Balance blade. 2. Replace blade.
Mower will not discharge grass	<ol style="list-style-type: none"> 1. Engine speed too low. 2. Wet grass. 3. Excessively high grass. 	<ol style="list-style-type: none"> 1. Set throttle between 3/4 and full throttle. 2. Do not mow when grass is wet; wait until later to cut. 3. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath (1/2 width).
Uneven cut	Dull blade.	Sharpen or replace blade.

†Refer to separate engine manual packed with your unit.

Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ARKANSAS	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop.....	5301 Roundtop Drive Box 368, Rt. 42117
CALIFORNIA	PORTERVILLE
Billious	75 North D Street3257
COLORADO	DENVER
Spitzer Industrial Products Co. . .	6601 N. Washington St.30229
FLORIDA	JACKSONVILLE
Radco Distributors	4909 Victor St. Box 545932207
	HIALEAH
Small Eng. Dist.	7995 W. 26th Court33016
ILLINOIS	LYONS
Keen Edge Co.	8615 Ogden Ave.30534
INDIANA	ELKHART
Parts & Sales Inc.	2101 Industrial Pkwy. Box 27746516
IOWA	DUBUQUE
Power Lawn & Garden Equip. . . .	2551 J.F. Kennedy.52001
MARYLAND	BELTSVILLE
Center Supply Co.	6802 Industrial Dr. #20820705
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co.	300 Birnie Ave.01107
MICHIGAN	MOUNT CLEMENS
Power Equipment Dist.	340 Hubbard48043
MINNESOTA	PLYMOUTH
Hance Distributing Inc.	12795 16th Ave. North 55441
MISSOURI	EARTH CITY
Oscar Wilson Engine & Parts . . .	4159 Shoreline Dr.63045
	KANSAS CITY
Automotive Equip. Service	3117 Holmes St.64109
NEW YORK	CARTHAGE
Gamble Dist., Inc.	West End Ave. Box 38913619

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NORTH CAROLINA	BROWNS SUMMIT
Dixie Sales Company	5920 Summit Ave.27214
OHIO	CARROLL
Stebe's Mid-State Mower Supply	Box 366, 71 High St.43112
	CLEVELAND
Bleckrie, Inc.	7900 Lorain Ave.44102
	WADSWORTH
National Central	687 Seville Rd.44281
	YOUNGSTOWN
Burton Supply Co.	1301 Logan Ave. Box 92944501
PENNSYLVANIA	HARRISBURG
EEOC Inc.	4021 N. 6th St.17110
	PITTSBURGH
Bluemont Co.	11101 Frankstown Rd. .15235
	PUNXSUTAWNEY
Frank Roberts & Sons	R.D. 215767
	SCRANTON
Scranton Auto Ignition Co.	1133-35 Wyoming Ave. .18509
TENNESSEE	KNOXVILLE
Ace Distributors	2103 Magnolia37917
	NASHVILLE
Chilton Air Cooled Engine	319 4th Ave. S.37210
TEXAS	DALLAS
Marr Brothers, Inc.	423 E. Jefferson75203
UTAH	SALT LAKE CITY
Powered Products	1661 N. Beck St.84116
VIRGINIA	ASHLAND
RBI Corp.	101 Cedar Ridge Dr. ...23005
WASHINGTON	SEATTLE
Equip. Northwest	1410 14th Ave.98122
WISCONSIN	MILWAUKEE
Wisconsin Magneto Inc.	4727 N. Teutonia St. ...53209
PUERTO RICO	RAMEY
Island Distribution Center	102 N. St.00604

WARRANTY PARTS AND SERVICE POLICY

(0689)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number, Serial Number and/or Date Code of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure—Date Repaired.
4. Nature of failure—Correction.

MTD PRODUCTS INC • P.O. BOX 360900 • CLEVELAND, OHIO 44136